miller-stephenson

Product Information

www.miller-stephenson.com

MS-122SE
High Performance Mold Release Agent

Description:

MS-122SE is a high performance, high solvency mold release agent utilizing PTFE fluoropolymers (polytetrafluoroethylene) specifically designed for unsurpassed adhesion to mold surfaces and extended durability. The proprietary solvent blend ensures that proper wetting, leveling, and surface preparation occurs when applied yielding a durable, uniform thin-film. MS-122SE offers the following benefits:

- Superior adhesion to mold surfaces
- High Solvency/Rapid Evaporating Carrier Fluid
- Ideal for compression/injection molding
- Nonflammable; Non-ozone depleting formulation
- Non-migrating; Non-staining

Release Agent Applications:

MS-122SE can be used to release the following materials:

- Plastics
- Resins
- Acrylics
- Urethanes
- Nylons
- Rubbers
- Phenolics
- Polycarbonates
- Polystyrene
- Elastomers

Physical Properties:

Primary Polymer:…….. Fluoropolymer
Appearance:……...White Particle suspension
Odor:……Slight
Specific Gravity:……1.41 g/mL @ 25°C
VOC Content…….....550 g/l

Recommended for application on molds to 212°F/100°C. Mold and then be heated up to 500°F/260°C.

Recommended Application Procedure:

1. Clean mold surface thoroughly. Mechanical cleaning such as, bead media blasting or steel wool, followed by chemical cleaning, provides the best surface for application of 122SE. Removal of all previous mold release agent is critical.
2. Shake can vigorously for one minute. Hold can approximately 6-8 inches away from a non-heated mold surface, and apply a light coat of release agent. NOTE: Material will apply wet and transparent, but will dry to a fine-white coat.
3. Allow solvent to dry completely before molding any parts. This will ensure the most effective coating for durability and cycle life.

Reapplication:

1. When release becomes hesitant, reapply one coat of MS-122SE in the same manner as described above.

Fused Coatings Procedure (Optional)

1. After applying the release agent, heat the surface to 581ºF - 600ºF.
2. Coating transition from a white to translucent will occur. Maintain the temperature of the coated surface for 5 to 10 minutes.
3. If a white residue is left on the metal surface, buff with a soft cloth. When the coating is properly fused, it is extremely durable.

Safety data sheet (SDS) is available upon request.

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